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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N	
10/050,907	01/18/2002	Willie Stroup	02514.0007.NPUS01	5808	
22930 75	90 01/02/2004		EXAMINER		
	MON ARNOLD & WH	menon, krishnan s			
BOX 34 1299 PENNSYI	LVANIA AVENUE NW	ART UNIT	PAPER NUMBER		
WASHINGTON		1723			

DATE MAILED: 01/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	on No.	Applicant(s)				
		10/050,9	07	STROUP, WILLIE	STROUP, WILLIE			
	Office Action Summary	Examine	r	Art Unit				
		Krishnan	S Menon	1723				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE N - Extens after S - If the p - If NO p - Failure - Any re	PRTENED STATUTORY PERIOD FOR IAILING DATE OF THIS COMMUNICATIONS of time may be available under the provisions IX (6) MONTHS from the mailing date of this commercial for reply specified above, the maximum state to reply within the set or extended period for reply by the set or extended period for reply by treceived by the Office later than three months a patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evalunication. D) days, a reply within the statutory period will apply and wwill, by statute, cause the app	vent, however, may a re tutory minimum of thirt vill expire SIX (6) MON plication to become AB	eply be timely filed y (30) days will be considered time THS from the mailing date of this of				
1)⊠ F	Responsive to communication(s) file	d on <u>25 November 2</u>	<u>:003</u> .					
2a)□ ¯	This action is FINAL . 2	b) This action is n	on-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Applicatio	· · · · · · · ·							
9)∐ T	he specification is objected to by the	e Examiner.						
10)□ T	he drawing(s) filed on is/are:	a) accepted or b)	objected to l	by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. §§ 119 and 120								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 								
Attachment(s			L7					
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (P tion Disclosure Statement(s) (PTO-1449) Pa			ummary (PTO-413) Paper No(formal Patent Application (PTC				

U.S. Patent and Trademark Office PTOL-326 (Rev 11-03)

Office Action Summary

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DETAILED ACTION

Claims 1-15 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1-5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Riise (US 4,632,764) in view of Bussey Jr et al (US 6,385,791 B1).

Riise teaches an apparatus for reducing liquid in a liquid-solid mixture comprising a holding chamber (col 2 lines 7-63; figures) having four walls and a floor, made of concrete (col 3 line 40) and having vehicular access (abstract; col 3 lines 54-60); conduit for directing liquid away (col 4 lines 1-12, 20-30), a filter separating the chamber and conduit (col 4 lines 1-12), a membrane forming an airtight cover (55-fig 5, col 7 lines 14-31), and means for reducing pressure in the conduit (col 4 lines 1-12).

Riise does not teach a "ramp" for vehicular access. However, the vehicular access provided would be equivalent because the prior art element performs the identical function specified in the claim in substantially the same way, and produces substantially the same results as the corresponding element disclosed in the specification. Kemco Sales, Inc. v. Control Papers Co., 208 F.3d 1352, 54 USPQ2d 1308 (Fed. Cir. 2000)

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Riise also does not teach an airtight membrane which is in contact with the liquid and solids mixture. Bussey teaches a substantially airtight membrane covering a body of liquid, and which is in contact with the liquid surface (see figures). It would be obvious to one of ordinary skill in the art at the time of invention to use the teaching of Bussey in the teaching of Riise to have a cover that is in contact with the liquid-solid mixture surface to prevent evaporation of the liquid, and to provide solar energy heating as taught by Bussey (col 2 lines 65-68, col 1 lines 1-23) and Riise (col col 7 lines 14-31)

Claims 2-5 add the further limitation of heating means, see col 2 line 38-45, fig. 4a; col 5 lines 44-50; col 6 lines 1-33). Claim 5 – heating means disposed in membrane – col 7 lines 14-30

1. Claims 6-8, and 12-15 are rejected under 35 USC 103 (a) as being unpatentable over Riise (US 4,632,764) in view of Bussey Jr et al (US 6,385,791 B1) as in claim 2 above and further in view of Winter et al (US 5,277,814)

Instant claims add further limitations which Riise in view of Bussey does not teach, but Winter teaches as follows: The apparatus further comprises air injectors disposed within the chamber as in instant claims 6 and 7 (col 5 lines 60-68; col 2 lines 27-40); temperature monitoring and control means as in instant claims 12 and 13 and the temperature is maintained between 100 and 200 °F (col 2 lines 62-68; col 7 lines 17-40) as in instant claim 15. It would be obvious to one of ordinary skill in the art at the time of invention to use the teachings of Winter in the teaching of Riise in view of Bussey to provide means for monitoring the temperature and providing aeration when

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the solid liquid mixture to be treated is water containing organic wastes as taught by Winter (see abstract), and for providing air for loosening up the accumulation as taught by Riise (col 7 lines 42-45)

Re claims 8, Riise also teaches air injection (col 7 lines 42-45; col 9 line 64) through the membrane. Regarding claim 14, see In re Lindberg, 194 F.2d 732, 93 USPQ 23 (CCPA 1952) (Fact that a claimed device is portable or movable is not sufficient by itself to patentably distinguish over an otherwise old device unless there are new or unexpected results.).

Claims 9-11 are rejected under 35 USC 103(a) as unpatentable over Riise (US 4,632,764) in view of Bussey Jr et al (US 6,385,791 B1) and Winter (814) as applied to claim 8 above, and further in view of Eichler (US 5,118,427).

Riise and Winter teaches agitating (Riise – col 6 lines 20-33; col 9 line 60-64; Winter: col 2 line 29), but Riise in view of Bussey and Winter doe not teach vibrating means for agitating the mixture as in claim 9. Eichler (427) teaches vibrating means for agitating (col 3 lines 17-45). It would be obvious to one of ordinary skill in the art at the time of invention to vibrate the membrane as taught be Eichler in the teachings of the separating apparatus of Riise in view of Bussey and Winter in view of Winter to keep the liquid mixture viscosity low for faster removal of liquids.

Re claims 10 and 11, Riise teaches moisture collection tank (col 4 lines 1-11), and Winter teaches moisture collecting tank disposed to receive liquids as in instant claims 10 and 11 (14,15 and 23 fig 1).

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Response to Arguments

Applicant's arguments with respect to claims 1-15 have been considered but are

moot in view of the new ground(s) of rejection.

Conclusion

This is a non-final first action after an RCE.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Krishnan S Menon whose telephone number is 571-272-

1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wanda L Walker can be reached on 571-272-1151. The fax phone number

for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0661.

TECHNOLOGY CENTER 1700

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Krishnan Menon Patent Examiner